WHAT IS CLAIMED IS:

1. A liquid crystal display including a table memory for storing compensation signal data for compensating the input signals for the optical response characteristics of an LCD panel, in accordance with gray scale transitions from the previous to current vertical display periods, and a gray scale determining means for determining a write gray scale signal to the LCD panel based on the compensation signal data,

characterized in that the table stored in the table memory stores each compensation signal data value corresponding to the combination of a representative gray scale level of the image signal in the current vertical display period and that of the image signal in the previous vertical display period, and the representative gray scale levels for each are set at varying intervals, close and dispersed intervals, depending on the optical response characteristics of the LCD panel.

2. The liquid crystal display according to Claim 1, wherein the table is constructed so that the representative gray scale levels are set at close intervals in the gray scale transition areas where the optical response speed of the LCD panel is more heterogeneous, and the representative gray scale levels are set at dispersed intervals in the gray scale transition areas where the optical response speed of the LCD panel is less heterogeneous.

3. The liquid crystal display according to Claim 1, wherein

the gray scale determining means determines compensation signal data values corresponding to the combinations of gray scale levels between representative gray scale levels, by calculation based on the compensation signal data stored in the table in correspondence with the combinations of representative gray scale levels.

4. The liquid crystal display according to Claim 2, wherein the gray scale determining means determines compensation signal data values corresponding to the combinations of gray scale levels between representative gray scale levels, by calculation based on the compensation signal data stored in the table in correspondence with the combinations of representative gray scale levels.